

EXHIBIT B

OVA Specific IgE ELISA

Coat plates with 50ul of 4ug/ml OVA in carbonate buffer o/n @4°C.

Dilute samples at appropriate dilution (1:50, 1:200, 1:800, 1:3200).

Wash plate and add 50 ul of blocking buffer and 50 ul of diluted sample. Let stand on a rotor @ rt for 3+ hrs.

Wash plate and add 100 ul anti mouse IgE-HRP (1:1000). Let stand on a rotor @ Rt for 1 hr.

Add O PD (0.25 mg/ml) and UPO (0.2 mg/ml) in citrate phosphate buffer.

Read OD at 492nm.

Use the OD of one sample to base all others on. Consider the first dilution neat, 1:4, 1:16 and 1:64 and construct curve OD vs dilution.

Take the half max of the OD and figure the dilution necessary to achieve that dilution, take it as 1 unit. Replot graph with unit vs OD. Multiply units for each sample by dilution factor x 10 to get the final unit/ml.

$$40 \text{ mg} / 50 \text{ ml} = 0.8 \text{ mg/ml.}$$

$$\frac{4 \text{ mg/ml}}{800 \text{ mg/ml}} \times 50 = 250 \text{ ul.} + 50 \text{ ul.}$$

120ul

50ul

2 plates

1 2 3 4 5 6 E1
D1 0 1:2, 1:4, 1:8, 1:16, 1:32, 1:64 8

E1 0 63 8

unpurified IgE

A1 0

8A3

B3 0

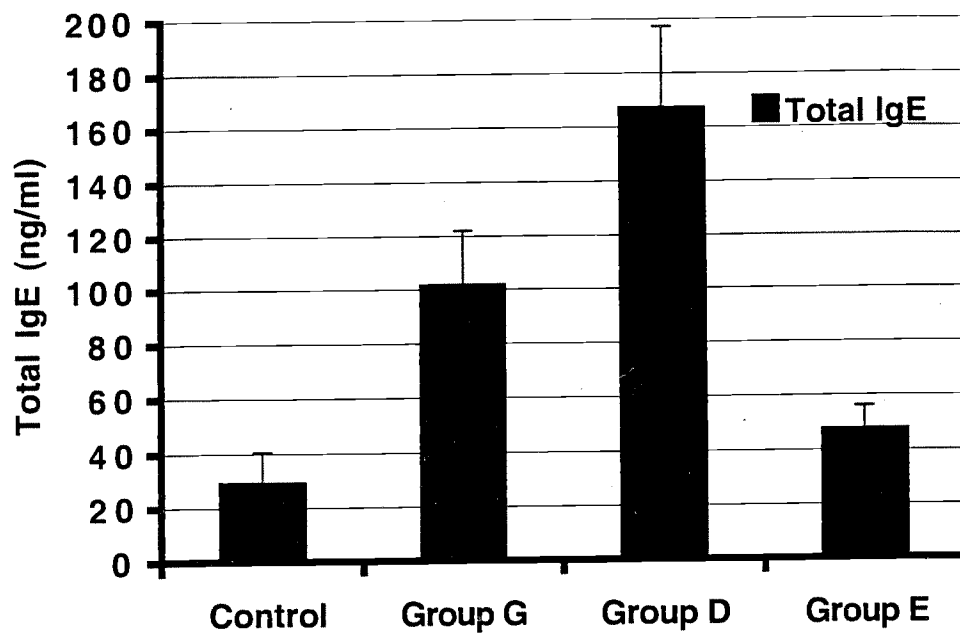
8B3

C1 0

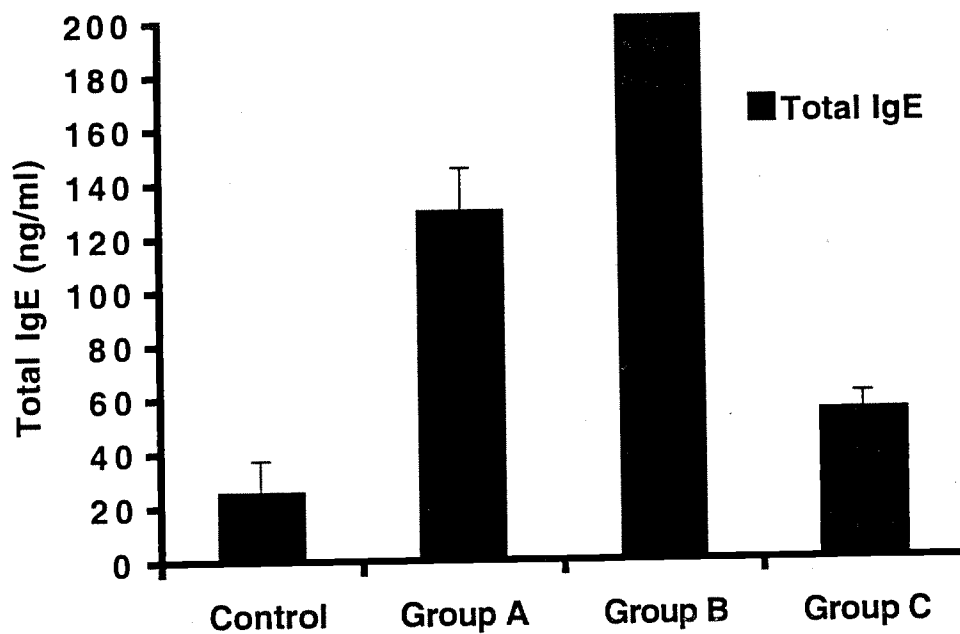
8C3

purified IgE

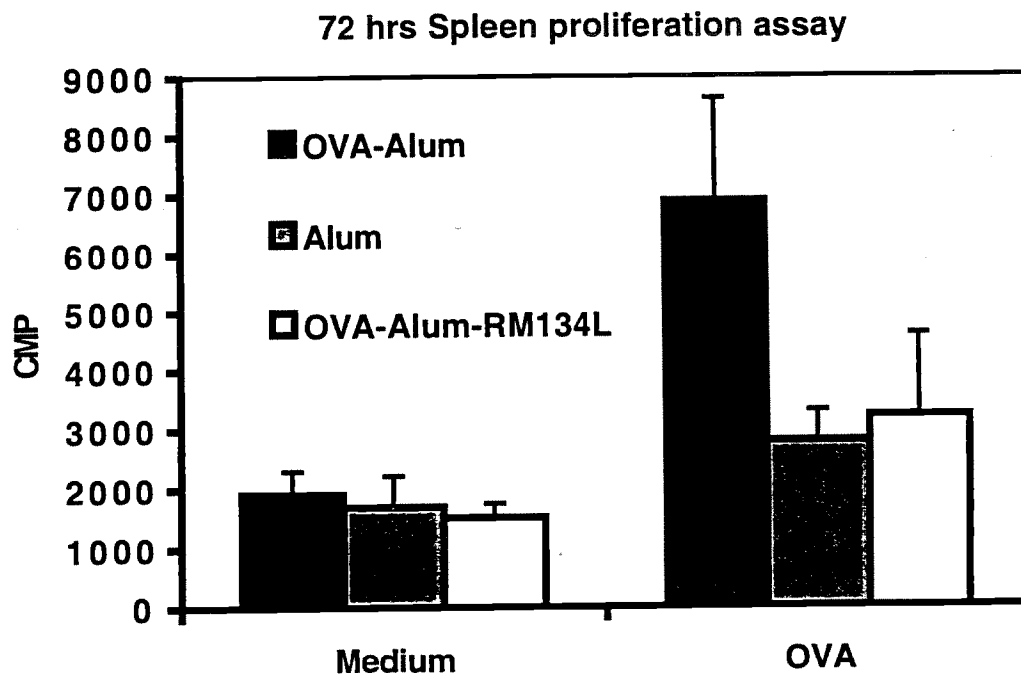
Control	Group G	Group D	Group E
25.82	121.38	126.72	36.3
13.1	71.46	164.8	54.5
32.76	102.46	201.56	42.14
41.7	107.84	172.57	54.4
28.345	100.785	166.4125	46.835
12.0641881	21.1083577	30.829403	9.11062932



Control	Group A	Group B	Group C
16.26	139.45	400	54.4
11.495	109.56	360	46.7
32.84	119.76	370	50.94
37.2	145.12	439	63.4
24.44875	128.4725	392.25	53.86
12.488164	16.6456709	35.5	7.09683498



	Medium	OVA	OVA+RM134L	RM134L	
OVA-Alum	1918	6883	6087	1947	**
Alum	1700	2787	3899	1346	
OVA-Alum-RM134L	1518	3211	5353	2100	
	386	1742	1674	471	
	524	509	818	426	
	239	1394	1379	454	



	Medium	OVA	OVA+RM134L	RM134L
OVA-Alum	2781	6593	5389	3210
Alum	2718	3364.7	3709	3156
OVA-Alum-RM134L	1541	2891	1760	863
	111	253	1247	308
	523	429	139	152
	361	539	464	224

